



**Product Data**

## **Performance™ Bio SW Range**

Biodegradable Ester Based Slideway Lubricant

### **Description**

Castrol Performance™ Bio SW Range ( previously called Carelube™ SL Range ) is available in ISO 68 and 220 viscosity grades. It is specifically designed for use in machine tool slideway systems.

### **Application**

Performance Bio SW Range should be used in place of conventional mineral slideway oils to ensure optimum performance when used in conjunction with the CARECUT neat cutting range. It is especially important with machine slideway systems as the majority of machine tools employ total loss technology

Performance Bio SW 68 may also be used for machine tool hydraulic systems where ester based soluble cutting fluids are being utilised and minimisation of impact of contamination is required.

### **Advantages**

- Inherently Biodegradable
- Environmentally friendly
- Excellent stick slip performance
- Compatible with ester based neat cutting oils
- Compatible with certain ester based soluble oils

## Typical Characteristics

| Name                               | Method                 | Units              | Bio SW 68  | Bio SW 220 |
|------------------------------------|------------------------|--------------------|------------|------------|
| Appearance                         | Visual                 | -                  | Pale Amber |            |
| Density @ 15°C / 59°F              | ASTM D4052 / ISO 12185 | kg/m <sup>3</sup>  | 921        | 922        |
| Kinematic Viscosity @ 40°C / 104°F | ASTM D445 / ISO 3104   | mm <sup>2</sup> /s | 68         | 220        |
| Viscosity Index                    | ASTM D2270 / ISO 2909  | -                  | 189        | 195        |
| Pour Point                         | ASTM D97 / ISO 3016    | °C/°F              | -27 / -17  | -30 / -22  |
| Flash Point - open cup method      | ASTM D92 / ISO 2592    | °C/°F              | 266 / 511  | 276 / 529  |
| Stick Slip Ratio                   | Cincinnati Lamb        | -                  | 0.71       | 0.72       |
| Thermal Stability                  | Cincinnati Lamb        | -                  | Pass       | Pass       |

Subject to usual manufacturing tolerances.

**This product was previously called Carelube SL Range. The name was changed in 2015.**

Performance™ Bio SW Range

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